

(FILE 'HOME' ENTERED AT 10:49:13 ON 22 APR 2003)

FILE 'REGISTRY' ENTERED AT 10:49:18 ON 22 APR 2003

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L2 STRUCTURE UPLOADED
L3 STRUCTURE UPLOADED
L4 0 S L3 SSS SAM
L5 7 S L3 SSS FULL

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 10:54:09 ON 22 APR 2003

L6 2 S L5

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2002:462923 CAPLUS

DOCUMENT NUMBER: 137:241208

TITLE: Introduction of Lanthanide(III) Chelates to Oligopeptides on Solid Phase

AUTHOR(S): Peuralahti, Jari; Hakala, Harri; Mukkala, Veli-Matti; Loman, Kristiina; Hurskainen, Pertti; Mulari, Outi; Hovinen, Jari

CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101, Finland

SOURCE: Biocónjugate Chemistry (2002), 13(4), 870-875

CODEN: BCCHE5; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 137:241208

AB The synthesis of oligopeptide building blocks for the introduction of nonluminescent and luminescent lanthanide(III) chelates to the oligopeptide structure on the solid phase is described. The oligopeptide conjugates synthesized were used in DELFIA-based receptor binding assay (motilin) as well as in LANCE time-resolved fluorescence quenching assay (caspase-3).

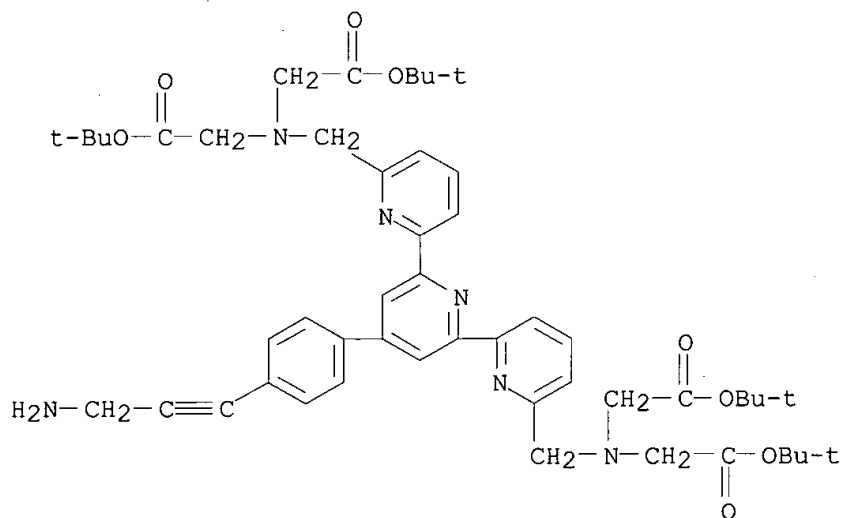
IT 450374-68-2P 450374-69-3P 450374-70-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of nonluminescent and luminescent lanthanide(III) chelates and their incorporation in solid-phase peptide synthesis)

RN 450374-68-2 CAPLUS

CN Glycine, N,N'-[[4'-[4-(3-amino-1-propynyl)phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-[2-(1,1-dimethylethoxy)-2-oxoethyl]-, bis(1,1-dimethylethyl) ester (9CI) (CA INDEX NAME)

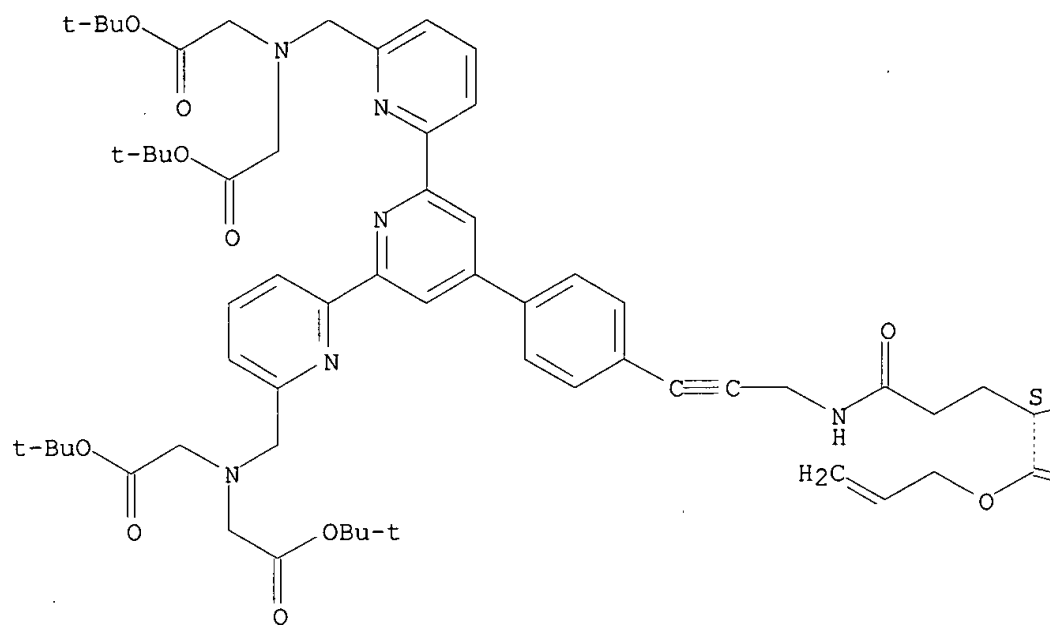


RN 450374-69-3 CAPLUS

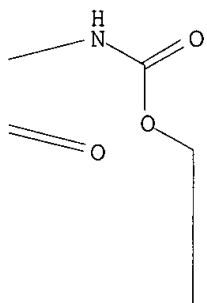
CN L-Glutamine, N5-[3-[4-[6,6''-bis[[bis[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]methyl][2,2':6',2''-terpyridin]-4'-yl]phenyl]-2-propynyl]-N2-[(9H-fluoren-9-ylmethoxy)carbonyl]-, 2-propenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

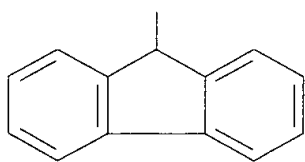
PAGE 1-A

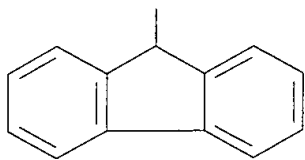


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PAGE 2-B

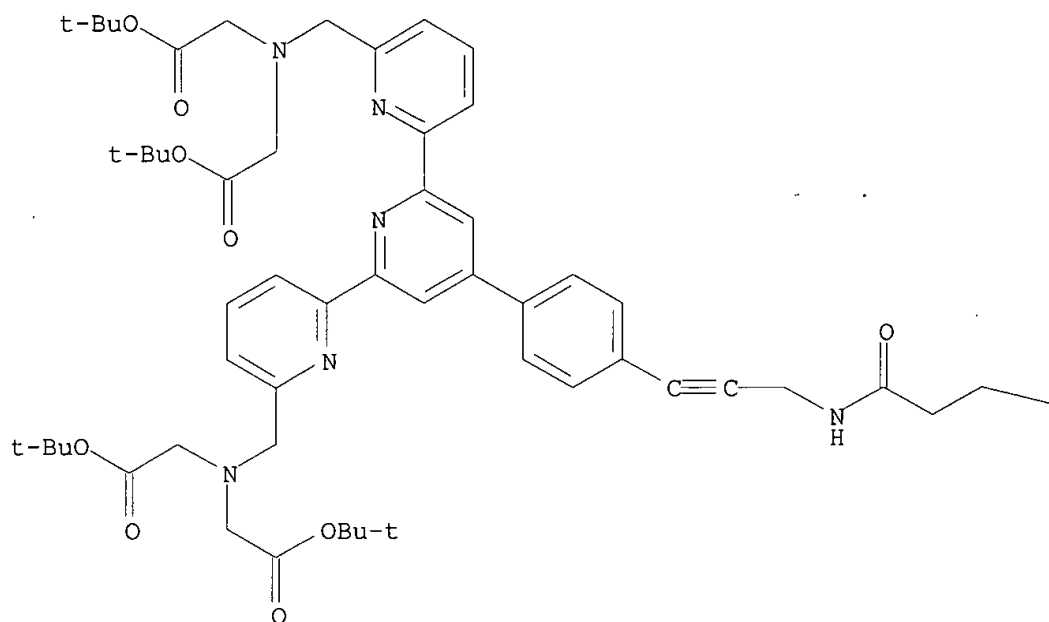


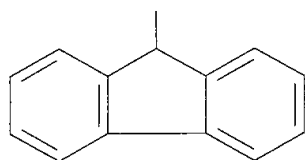
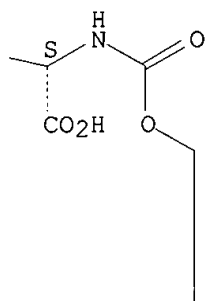


RN 450374-70-6 CAPLUS

CN Pentanoic acid, 5-[[[3-[4-[6,6''-bis[[bis[2-(1,1-dimethylethoxy)-2-oxoethyl]amino]methyl][2,2':6',2''-terpyridin]-4'-yl]phenyl]-2-propynyl]amino]-2-[[[9H-fluoren-9-ylmethoxy)carbonyl]amino]-5-oxo-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.





REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
 ACCESSION NUMBER: 2001:490069 CAPLUS
 DOCUMENT NUMBER: 135:242452
 TITLE: Versatile Strategy for Oligonucleotide Derivatization. Introduction of Lanthanide(III) Chelates to Oligonucleotides
 AUTHOR(S): Hovinen, Jari; Hakala, Harri
 CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101, Finland
 SOURCE: Organic Letters (2001), 3(16), 2473-2476
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 135:242452

AB Novel nucleosidic phosphoramidite blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-dimethoxytrityl)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also

synthesized.

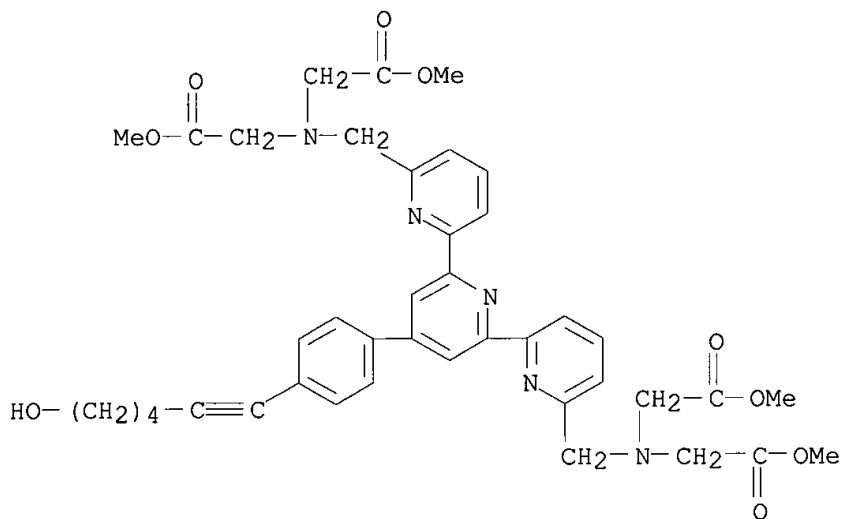
IT 358978-79-7P 358978-80-0P 358978-84-4P
358978-85-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(versatile strategy for oligonucleotide derivatization introduction of
lanthanide chelates to oligonucleotides)

RN 358978-79-7 CAPLUS

CN Glycine, N,N'-[[4'-[4-(6-hydroxy-1-hexynyl)phenyl][2,2':6',2''-
terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-,
dimethyl ester (9CI) (CA INDEX NAME)

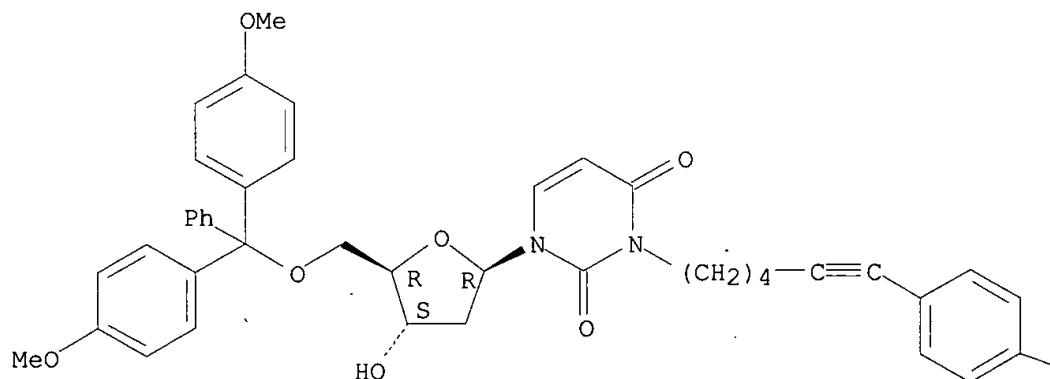


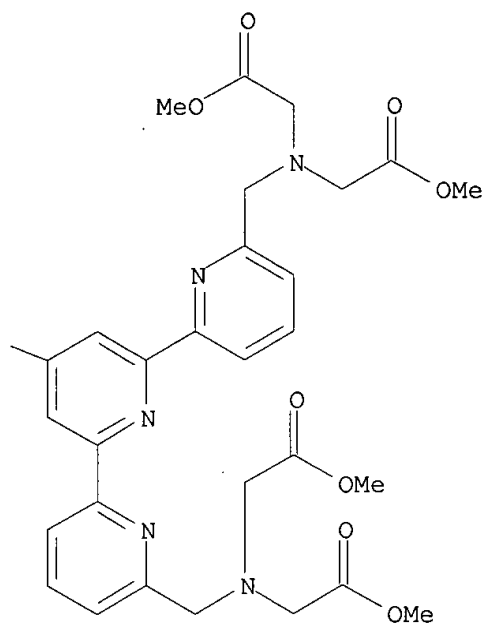
RN 358978-80-0 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-
deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-
pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-
diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

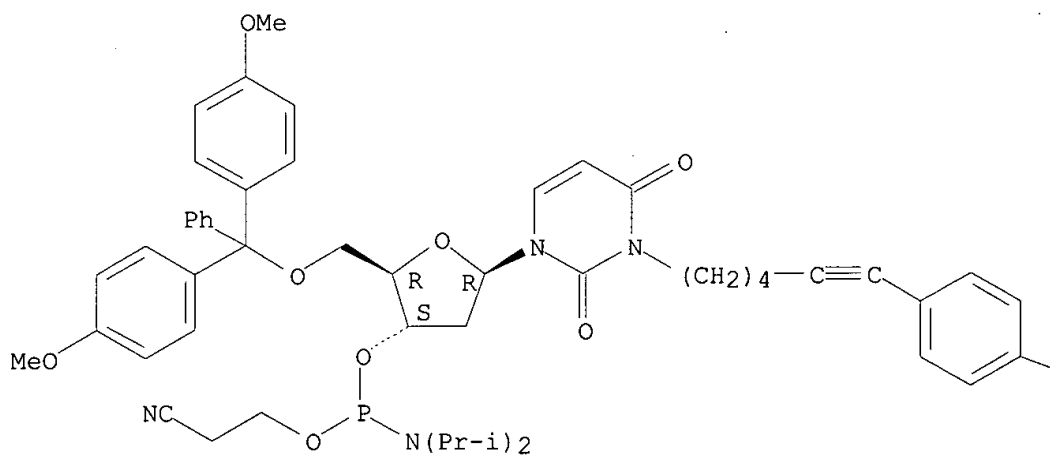


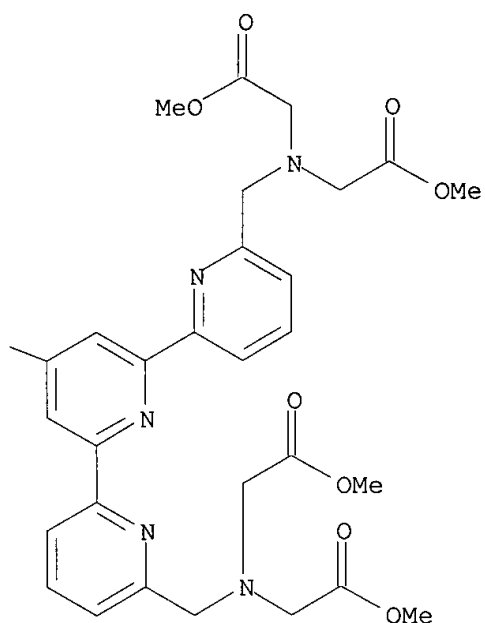


RN 358978-84-4 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

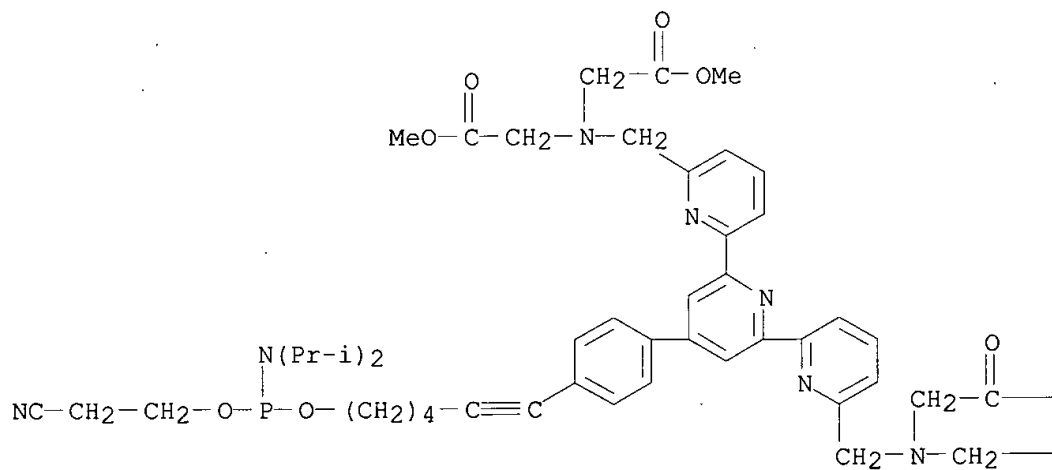
Absolute stereochemistry.



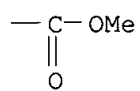


RN 358978-85-5 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]oxy]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 10:39:43 ON 22 APR 2003)

FILE 'REGISTRY' ENTERED AT 10:39:50 ON 22 APR 2003

L1 STRUCTURE UPLOADED

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L3 4 S L1 SSS FULL

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 10:41:23 ON 22 APR 2003

L4 1 S L3

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:490069 CAPLUS

DOCUMENT NUMBER: 135:242452

TITLE: Versatile Strategy for Oligonucleotide Derivatization.
Introduction of Lanthanide(III) Chelates to
Oligonucleotides

AUTHOR(S): Hovinen, Jari; Hakala, Harri

CORPORATE SOURCE: PerkinElmer Life Sciences Wallac Oy, Turku, FIN-20101,
Finland

SOURCE: Organic Letters (2001), 3(16), 2473-2476

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:242452

AB Novel nucleosidic phosphoramidite blocks were synthesized by a Mitsunobu reaction between 2'-deoxy-5'-O-(4,4'-dimethoxytrityl)uridine and a primary alc. contg. a conjugate group in its structure (a protected functional group, an org. dye, or a precursor of a lanthanide(III) chelate) followed by phosphitylation. They were used in machine-assisted DNA synthesis in the std. manner. A slightly modified deprotection procedure was used for the prepn. of oligonucleotide conjugates tethered to lanthanide(III) chelates. For the latter application one non-nucleosidic block was also synthesized.

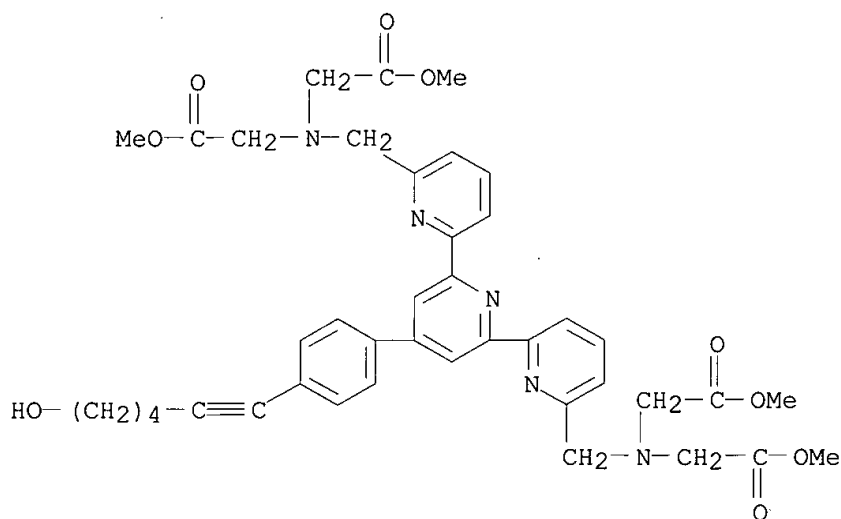
IT 358978-79-7P 358978-80-0P 358978-84-4P
358978-85-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(versatile strategy for oligonucleotide derivatization introduction of lanthanide chelates to oligonucleotides)

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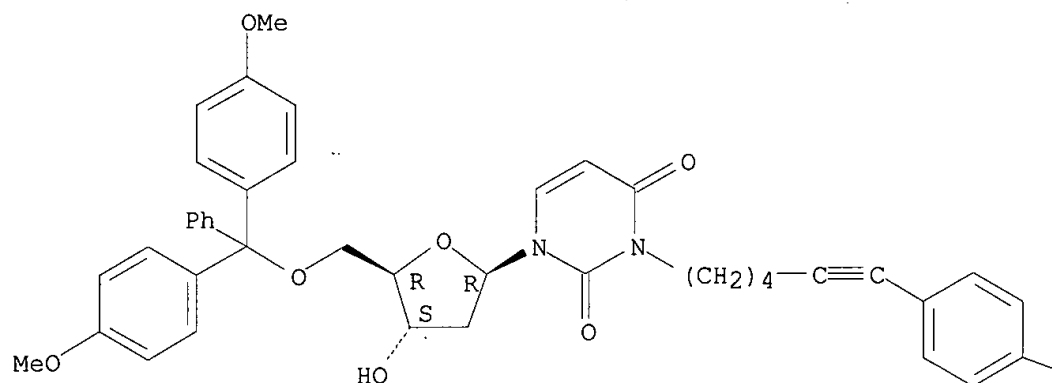


RN 358978-80-0 CAPLUS

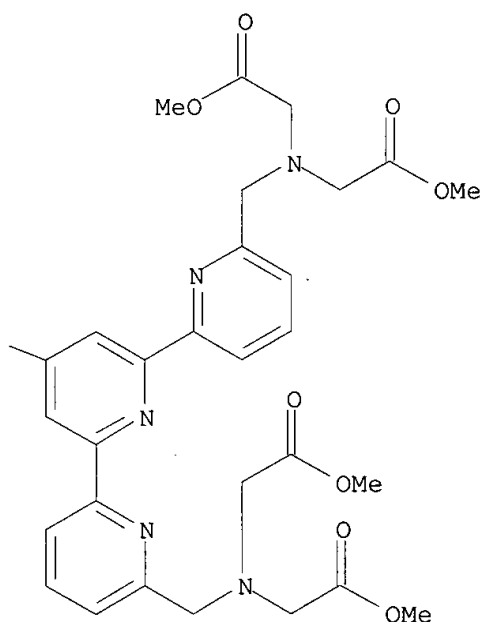
CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



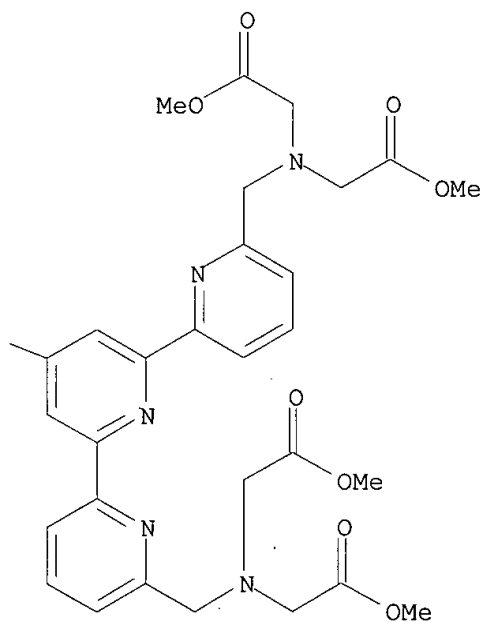
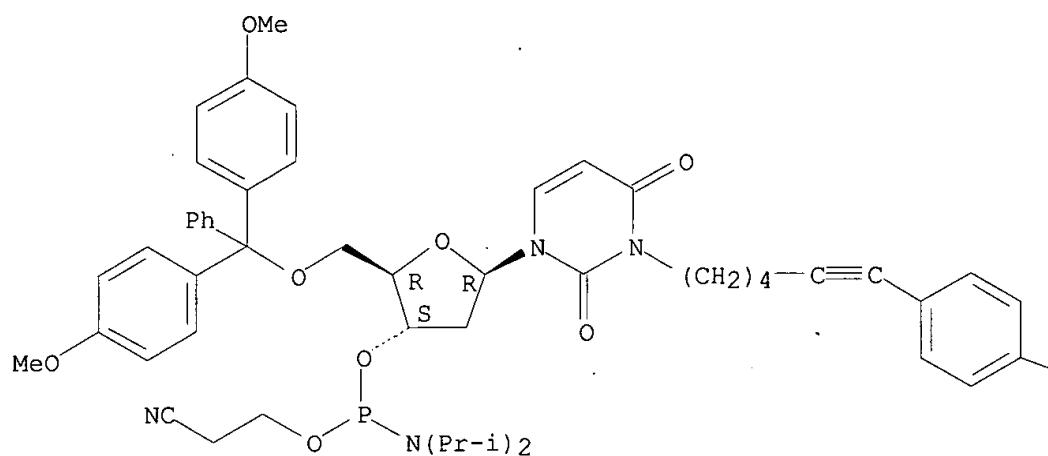
PAGE 1-B



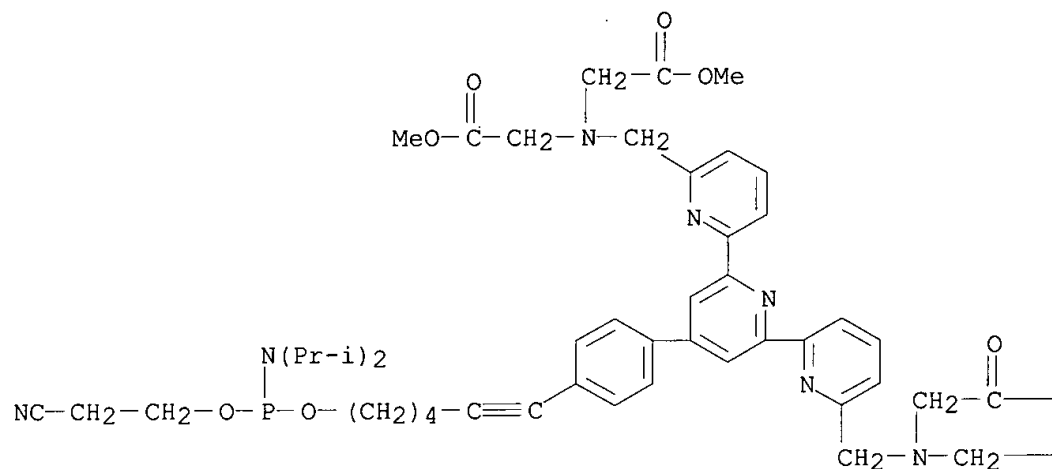
RN 358978-84-4 CAPLUS

CN Glycine, N,N'-[[4'-[4-[6-[3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-deoxy-.beta.-D-erythro-pentofuranosyl]-3,6-dihydro-2,6-dioxo-1(2H)-pyrimidinyl]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN	358978-85-5	CAPLUS
CN	Glycine, N,N'-[[4'-[4-[6-[[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]oxy]-1-hexynyl]phenyl][2,2':6',2''-terpyridine]-6,6''-diyl]bis(methylene)]bis[N-(2-methoxy-2-oxoethyl)-, dimethyl ester (9CI) (CA INDEX NAME)	



— OMe

$$\begin{array}{c} \text{---C---OMe} \\ || \\ \text{O} \end{array}$$

REFERENCE COUNT:

12

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT